

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Amended) A composition of matter comprising a polyurethane elastomer having improved abrasion resistance with no significant loss in friction prepared by mixing

- A) a polyurethane prepolymer,
- B) a curative, and
- C) a liquid, non-reactive polydimethylsiloxane,

wherein C) is present in a concentration of about 0.5 to about 25 % based on the combined weight of A) plus B),

and curing the mixture to form the elastomer.

2. (Original) The composition of claim 1 wherein the polyurethane prepolymer is prepared from a diisocyanate selected from the group consisting of paraphenylene diisocyanate, tolidene diisocyanate, isophorone diisocyanate, 4,4'-methylene bis (phenylisocyanate), toluene-2,4- diisocyanate, toluene-2,6-diisocyanate, naphthalene-1,5-diisocyanate, diphenyl-4,4'- diisocyanate, dibenzyl-4,4'-diisocyanate, stilbene-4,4'-diisocyanate, benzophenone-4,4'- diisocyanate, 1,3- and 1,4-xylene diisocyanates, 1,6-hexamethylene diisocyanate, 1,3- cyclohexyl diisocyanate, 1,4-cyclohexyl diisocyanate, the three geometric

isomers of 1,1'-methylene-bis(4-isocyanatocyclohexane), and mixtures of the foregoing.

3. (Original) The composition of claim 2 wherein the diisocyanate is reacted with a polyol selected from the group consisting of polyether polyols, polyester polyols, and hydrocarbon polyols, having a number average molecular weight of at least 250.
4. (Original) The composition of claim 3 wherein the polyol is a polyalkyleneether polyol represented by the general formula $\text{HO}(\text{RO})_n\text{H}$, wherein R is an alkylene radical and n is an integer large enough that the polyether polyol has a number average molecular weight of at least 250.
5. (Original) The composition of claim 1 wherein the curative is selected from the group consisting of diamines, polyols, and blends thereof having a melting point below 140° C.
6. (Original) The composition of claim 5 wherein the curative is selected from the group consisting of 1,4-butanediol, hydroquinone-bis-hydroxyethyl ether, 1,4-cyclohexane dimethanol, trimethylolpropane, aliphatic tetrols, 4,4'-methylenedianiline, 2,2',5-trichloro-4,4'-methylenediamines, naphthalene-1,5-diamine, ortho, meta, and para-phenylene diamines, toluene-2,4-diamine, dichlorobenzidine, diphenylether-4,4'-diamine, 4,4'-methylene-bis(3-chloroaniline), 4,4'-methylene-bis(3-chloro-2,6-diethylaniline), diethyl toluene diamine, tertiary

butyl toluene diamine, dimethylthio-toluene diamine, trimethylene glycol di-p-amino-benzoate, 1,2-bis(2-aminophenylthio)ethane, and methylenedianiline-sodium chloride complex, including the derivatives and mixtures of the foregoing.

7. (Currently Amended) A method for producing a polyurethane elastomer ~~having improved abrasion resistance with no significant loss in friction~~ comprising the steps of:

A) mixing:

- 1) a polyurethane prepolymer,
- 2) a curative, in sufficient amount to cure the polyurethane prepolymer,

and

- 3) a non-reactive, liquid polydimethylsiloxane,

wherein 3) is present in a concentration of from about 0.5% to about 25% based on the weight of 1) plus 2), and

B) curing the polyurethane prepolymer to yield ~~the~~ an elastomer having improved abrasion resistance with no significant loss in friction.

8. (Original) The method of claim 7 wherein the polyurethane prepolymer is prepared from a diisocyanate selected from the group consisting of paraphenylene diisocyanate, tolidene diisocyanate, isophorone diisocyanate, 4,4'-methylene bis (phenylisocyanate), toluene-2,4- diisocyanate, toluene-2,6-diisocyanate, naphthalene-1,5-diisocyanate, diphenyl-4,4'- diisocyanate, dibenzyl-4,4'-diisocyanate, stilbene-4,4'-diisocyanate,

benzophenone-4,4'- diisocyanate, 1,3- and 1,4-xylene diisocyanates, 1,6-hexamethylene diisocyanate, 1,3-cyclohexyl diisocyanate, 1,4-cyclohexyl diisocyanate, the three geometric isomers of 1,1'- methylene-bis(4-isocyanatocyclohexane), and mixtures of the foregoing

9. (Original) The method of claim 8 wherein the diisocyanate is reacted with a polyol selected from the group consisting of polyether polyols, polyester polyols, and hydrocarbon polyols, having a number average molecular weight of at least 250.

10. (Original) The method of claim 9 wherein the polyol is a polyalkyleneether polyol represented by the general formula $\text{HO}(\text{RO})_n\text{H}$, wherein R is an alkylene radical and n is an integer large enough that the polyether polyol has a number average molecular weight of at least 250.

11. (Original) The method of claim 7 wherein the curative is selected from the group consisting of diamines, polyols, and blends thereof having a melting point below 140° C.

12. (Original) The method of claim 11 wherein the curative is selected from the group consisting of 1,4-butanediol, hydroquinone-bis-hydroxyethyl ether, 1,4-cyclohexane dimethanol, trimethylolpropane, aliphatic tetrols, 4,4'-methylenedianiline, 2,2',5-trichloro-4,4'-methylenediamines, naphthalene-1,5-diamine, ortho, meta, and para-phenylene diamines, toluene-2,4-diamine, dichlorobenzidine, diphenylether-4,4'-diamine, 4,4'-methylene-bis(3-

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chloroaniline), 4,4'-methylene-bis(3-chloro-2,6-diethylaniline), diethyl toluene diamine, tertiary butyl toluene diamine, dimethylthio-toluene diamine, trimethylene glycol di-p-amino-benzoate, 1,2-bis(2-aminophenylthio)ethane, and methylenedianiline-sodium chloride complex, including the derivatives and mixtures of the foregoing.

13. (Original) An article of manufacture comprising a polyurethane elastomer and about 0.5% to about 25% based on the weight of the elastomer of a non-reactive, liquid polydimethylsiloxane, whereby the abrasion resistance of the article is improved with no significant loss in friction.
14. (Original) The article of manufacture of claim 13 wherein the article is a railroad side bearing pad.
15. (Original) The article of manufacture of claim 13 wherein the article is a skate wheel.
16. (Original) The article of manufacture of claim 13 wherein the article is a tire.
17. (Original) The article of manufacture of claim 13 wherein the article is a track pad.

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18. (Original) The article of manufacture of claim 13 wherein the article is an elastomeric friction brake.

19. (Original) The article of manufacture of claim 13 wherein the article is a scraper blade.